DESIGN PANEL NO. 31 9-18-97

SYSTEM SERVICES ENHANCEMENT THREAD - Bob McMahon

OVERVIEW

The System Services Enhancements thread contains several CSC enhancements that are not included in any of the other Thor threads. These enhancements include the following:

1. Timer Services - provides the initial timer services support for the RTPS and synchronize platforms to GMT.
2. Interprocess Communications - provide an implementation of a CORBA - based IPC mechanism.
3. OPS Configuration Manager - provide enhancement to the platform configuration and initialization tool; implement modifications to support the new user login concept.
4. Access Control/Security - define and implement access control policies and auditing requirements for the RTPS.
5. Operating System - provide final version of the OS download utility; implement a help desk for the development and operational environments.

ACTIONS   ACTIONEE   DUE DATE   STATUS

No actions required

ISSUES

Assigned to Pete Aiello, Bob McMahon, Jeff Lee and Ken Clark

1. Determine where the central time server is, in the CCP or DDP.

2. How does the timer services determine the GMT isn't correct, and how does it react?

Approved as presented

PROPULSION ADVISORY TOOL REQUIREMENTS - Randy Lane

OVERVIEW

The Propulsion Advisory Tool's main function is to warn of events that could lead to LOX geyser. In addition, the knowledge base provides intelligent sensor monitoring, real-time LOX saturation conditions, real-time LOX bleed flow calculations, instrumentation pre-processor health status of all black boxes with good/bad data tag for each measurements, real-time MPS/SSME helium mass calculation, Orbiter MPS helium system model, and electrical schematic model for MPS valves.

ACTIONS	ACTIONEE	DUE DATE	STATUS
No action required			

The requirements are not adequate to perform test, and must be corrected at DP3. In designing GOTS, there is no need to stop the process to correct the requirements. Expect to review combined requirements, and design review on the approved schedule. Ken Clark will need to review the requirements prior to that time.

APU NEURAL NET TOOL REQUIREMENTS - Alan Zide

OVERVIEW

The APU Neural Tool (ANNT) is an expert system software application that has been developed using Gensym's G2 and NeurOn-Line software. The tool combines a real-time display, saved historical data, individual pulse diagnostics, and supported by expert system heuristics to ensure accurate results.

ACTIONS	ACTIONEE	DUE DATE	STATUS

No action required

The requirements are not adequate to perform test, and must be corrected at DP3. In designing GOTS, there is no need to stop the process to correct the requirements. Expect to review combined requirements, and design review on the approved schedule. Ken Clark will need to review the requirements prior to that time.

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JVIEW REQUIREMENTS - Steve Beltz

OVERVIEW

The JView system provides a display interface of shuttle data streams in a fashion similar to the existing PCGOAL application (but running as a window in a desktop environment). The primary function of JView is the display of measurement valves on user desktop computers via JAVA-enabled Web browsers. These valves are viewed by the user from graphical display screens (initially, PCGOAL DSP skeletons) and plot screens. As a "monitoring only" system, JView is not intended to replace or conflict with existing or planned checkout and firing room application.

ACTIONS	ACTIONEE	DUE DATE	STATUS
No action required			

The requirements are not adequate to perform test, and must be corrected at DP3. In designing GOTS, there is no need to stop the process to correct the requirements. Expect to review combined requirements, and design review on the approved schedule. Ken Clark will need to review the requirements prior to that time.